



GOLDSCHMIDT

Smart Rail Solutions



TRACKSCAN METRO

**COMPREHENSIVE MEASUREMENT OF THIRD RAIL,
CROSS PROFILE AND TRACK GEOMETRY**

The Trackscan Metro is precision-engineered for metro systems, seamlessly integrating cutting-edge technology for unparalleled track measurement. It meticulously assesses track geometry, rail cross profiles, and third rail positions on both sides, ensuring optimal safety and reliability. Instant measurement results on the trolley's interface provide real-time insights, completed by our Dari® software for comprehensive track condition analysis, rail wear evaluation, and professional reporting.

TECHNICAL DATA

SPECIFICATIONS

Measured parameters		
Railhead cross sections	Accuracy of mapping ± 0.3 mm	
Track gauge	Accuracy: ± 0.5 mm	Measurement range: -15 ... +50 mm
Cant	Accuracy: ± 1.5 mm	Measurement range: ± 200 mm
Horizontal irregularities	Accuracy: ± 0.2 mm / 1 m	Measurement range: ± 5 mm
Vertical irregularities	Accuracy: ± 0.2 mm / 1 m	Measurement range: ± 2 mm
Third rail offset (vertical and horizontal)	Accuracy: ± 0.5 mm	
Calculated parameters		
Twist	Accuracy: ± 3 mm	
Gradient	Accuracy: ± 1 mm	
Railhead wear	Accuracy of mapping ± 0.3 mm	
Vertical offset of third rail	Accuracy: ± 0.5 mm	Measurement range: 70 mm
Horizontal offset of third rail	Accuracy: ± 0.5 mm	Measurement range: 40 mm
Measuring increment	0.25 m	
Types of rails	Vignol	
Dimensions (L x H x W)	Laser heads retracted 2050 x 1250 x 870 mm Laser heads extended 2710 x 1250 x 870 mm	
Weight	49 kg	
Memory capacity	1400 km	
Operating time	Up to 4 h	
Resolution	0.1 mm	
Operating conditions	Temperature: -20 ... +45 °C Humidity: 15 ... 85 %, no condensation	

CONTENTS

- Trackscan Metro
- Batteries
- Chargers
- Transport boxes
- Dari® software, one licence

BENEFITS

- Electrified Track Specialist: Exclusively measures third rail offset and both vertical and horizontal offset of the power rail, making it ideal for electrified railways
- Advanced Laser Technology: Achieve flawless rail profile measurements and detailed rail head wear evaluation
- Integrated GPS: Log measurement coordinates with pinpoint accuracy for seamless track mapping
- Visual Inspection: Capture and document inspection results effortlessly for in-depth track evaluation
- Dependable Data Accuracy: Maintain measurement integrity in all environmental conditions
- Clear Data Display: Guarantee data readability in all light conditions with a specialized display screen
- Uninterrupted Power: Ensure ongoing measurements with hot-swappable batteries for constant operation
- Swift Track Removal: Quickly remove the trolley from the track without disrupting the measurement session
- Versatile Gauge Solutions: Available for the standard 1435 mm gauge, with custom gauges available upon request
- Exclusive Software Suite: Export data to various formats like MS Excel, MS Word, PDF, DXF, and CSV for extensive analysis and in-depth reporting



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